New U.S. Patent Application Inventors: R. JURECIC et al. Title: HEPP, A Novel Gene with a Role in Hematopoietic and Neural Development" Attorney Docket No. 39532.176599 Sheet 1 of 14

## FIGURE 1A

_		<b>C</b> 0
	CCCCGCGTCGGTCTTCCACCTCACCTTTCGAGCTGGCCGCCGCTTGCTGTGCGCAGTTTC	60
	GGGGGACTGGACCTTCCCTGGCTTTTAGCAGCGCCGAGCGCCATGGCGACCCTTTGCTGG	120
	GCAGGTGACCGATTCCGGGTGCCCGAAGGAGCTGGCGTGGGTCTGCCTTGCAGCCGCCCC	180
	CCTGGACAGGATGTTTGCTAGAGGGCTGAAGAGGAAATATGGTGACCAGGAAGAAGGAGT	240
1	MFARGLKRKYGDQEEGV	17
241	AGAGGGTTTTGGCACTGTCCCTTCCTATAGCCTGCAGCGACAGTCACTCCTGGACATGTC	300
	E G F G T V P S Y S L Q R Q S L L D M S	37
301	CCTTGTCAAGCTCCAGCTCTGTCACATGCTAGTGGAGCCCAATCTCTGCCGCTCGGTCCT	360
	LVKLQLCHMLVEPNLCRSVL	57
361	CATCGCCAACACAGTCCGGCAGATCCAGGAGGAAATGAGCCAGGATGGTGTGTGGCATGG	420
	IANTVRQIQEEMSQDGVWHG	77
421	GATGGCACCCCAGAATGTAGATCGGGCACCAGTTGAACGCCTGGTGTCCACAGAGATCCT	480
	MAPQNVDRAPVERLVSTEIL	97
481	GTGTCGTACAGTGAGGGAGCTGAGGAAGAGCACCCTGCTCCTGAACTGGAAGATGCTCC	540
	CRTVRGAEEEHPAPELEDAP	117
541	CTTGCAAAACTCGGTTTCCGAGCTCCCCATCGTTGGCTCAGCACCAGGGCAAAGGAACCC	600
311	LONSVSELPIVGSAPGORNP	137
601	TCAGAGCAGCCTCTGGGAGATGGACAGCCCACAAGAAAACAGGGGAAGCTTTCAGAAGTC	660
001	Q S S L W E M D S P Q E N R G S F Q K S	157
661	ACTGGACCAGATATTTGAGACCCTGGAGAACAAAACTCCAGTTCAGTGGAGGAACTCTT	720
997	L D O I F E T L E N K N S S S V E E L F	177
701	CTCAGATGTGGACAGCTCCTACTATGACCTGGACACAGTGCTAACAGGAATGATGAGTGG	780
121		197
781	GACCAAGTCCAGTCTCTGCAATGGCCTTGAGGGCTTTGCTGCAGCCACCCCTCCTCCCAG	840
	T K S S L C N G L E G F A A A T P P P S	217
841	TTCCACTTGCAAGTCTGACCTGGCTGAGCTGGACCATGTGGTAGAGATTCTGGTGGAGAC	900
	STCKSDLAELDHVVEILVET	237
901	CTGAGAGGCCACCCCAGTGGGCTAAGGGTGAGGCCACCAGTCCCCATGGAGCTCACGTGT	960
	*	
	GTTGTGACCCAGAGACAGATAAGCACTTGTCCTAAGAGGGGCTCTGGCTCTTGAGCTCAT	1020
1021	TATCCTTTTGTGTGACATTGGACTCACTGTGGAGGATGGTGTGTCACAGCTATGTCTAGT	1080
1081	CTATTTCAATTAGATAGGTGAACTTTCTAAAATTAAGTTTTATATGTTTTTTGGGCAATA	1140
1141	TTTTGTCTTAAGATATATTTTTTAAACTTTTTATACTTTAGATTTTTTTCAGCTATTTTC	1200
1201	TTAAAAGTATATTTTTCTACAAACATCCTCTGCTGCTACATTAGAAACATTTATAACCT	1260
1261	AAATACGATTGGTGTCATTTTAAAGGTTTAAATAGAAAACTTCTTTTGTTACTGAGTC	1320
1321	TCTACACTCCCAAGGCAACTGTAAATGTAGCCGGCCGGGTGTTTACATGAGAGGCTCCAG	1380
1381	TATGGTCTACATTCTAGTAGAGCTTGAAAAGAACCATGCACAGCTCCACTGCCCCCTCAC	1440
1441	TGGGTCTGCTCTGGCGGATCGGAGCTCTCTTCCTAGCCCCGTGTGCAGGATGGCTTTATT	1500
1501	TATGCCTATTTATATGTAAATGCCACTGAAAGCTAAGGTCTTACTCCTGGAAATCCCAAC	1560
1561	ACCAGTTCTTCAGGGACTGCTGTGAGGCAGTGCCTTATGCAGGTCTTGTCCTTGGCCATC	1620
	ACTGTCTGGTTCCCAGCCCAGCACATGTGACATGAGGACATGACATGCCCGAACCACCCA	1680
	GCACCACATGCTCCATGTCAAGTGTGTACGTGGAGACCACTGGCTCCCAGGCCTGTGCTC	1740
	AGAGAGGTGTGCAGTCCTACGTGTGCTGGGGGGGACGACGGTGACCTGTGCTTGC	1800
	TTTTAAAATGGTGCTTGGACGTTTTAAGGTTAAAAACAATCCGACTCCATATGATTTAGG	1860
	GCTCCTCCACCCTGGGGTGGCCCCTATGCTGTCTGCTTGGATCTCAAAGTCTTGGTACTC	1920
	GCACTGTCAGACTCCACCCCATGTATCCTTTTTGTTTCTCTTGTGCTTTTTTTGGACTT	1980
	CCCAACCTGAGCTCTAAGGTTTTATTTTATATGTGCTTCAATATCAACAATGTAAACCTCA	2040
	CCCAACCTGAGCCTAAGGTTTATTTTATATGTGCTTCAATATCAACAATGTAAACCTCA CTTT <b>ATTAA</b> AAGTATCCAGCAAATGGAAAAAAAAAAAAAAAA	2040
2041	CIIIAIIAAAGIAICCAGCAAAIGGAAAAAAAAAAAAAA	

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### FIGURE 1B

		60
_	GGGAAGCTGGCGCACAGCCGTGGCGCCTGGCTGAGCAGAGGACCCGGCGGGCG	
	CGGGTCAGGACACAATGTTTGCACGAGGACTGAAGAGGAAATGTGTTGGCCACGAGGAAG	120
1	M F A R G L K R K C V G H E E D	16
121	ACGTGGAGGAGCCCTGGCCGGCTTGAAGACAGTGTCCTCATACAGCCTGCAGCGGCAGT	180
	V E G A L A G L K T V S S Y S L Q R Q S	36
181	CGCTCCTGGACATGTCTCTGGTGAAGTTGCAGCTTTGCCACATGCTTGTGGAGCCCAACC	240
	LLDMSLVKLQLCHMLVEPNL	56
241	TGTGCCGCTCAGTCCTCATTGCCAACACGGTCCGGCAGATCCAAGAGGAGATGACGCAGG	300
	CRSVLIANTVRQIQEEMTQD	76
301	ATGGGACGTGGCACAGTGGCACCCCAGGCTGCAGAGCGGCGCCGCTCGACCGCTTGG	360
	G T W R T V A P Q A A E R A P L D R L V	96
361	TCTCCACGGAGATCCTGTGCCGTGCAGCGTGGGGGCAAGAGGGGGCACATCCTGCTCCTG	420
	STEILCRAAWGQEGAHPAPG	116
421	GCTTGGGGGACGCCACACACAGGGTCCAGTTTCTGACCTTTGCCCAGTCACCTCAGCAC	480
	L G D G H T Q G P V S D L C P V T S A Q	136
481	AGGCACCAAGGCACCTGCAGAGCAGCGCCTGGGAGATGGATG	540
	APRHLQSSAWEMDGPRENRG	156
541	GAAGCTTTCACAAGTCACTTGATCAGATATTTGAAACGCTGGAGACTAAAAACCCCAGCT	600
	S F H K S L D Q I F E T L E T K N P S C	176
601	GCATGGAAGAGCTGTTCTCAGACGTGGACAGCCCCTACTACGACCTGGACACAGTACTGA	660
	MEELFSDVDSPYYDLDTVLT	196
661	CAGGCATGATGGGGGGTGCCAGGCCGGGCCCCTGCGAAGGGCTCGAGGGCTTGGCTCCGG	720
	G M M G G A R P G P C E G L E G L A P A	216
721	CCACCCAGGCCCTAGCTCCAGCTGCAAGTCCGACCTGGGCGAGCTGGACCACGTGGTGG	780
	T P G P S S S C K S D L G E L D H V V E	236
781	AGATCCTGGTGGAGACCTGAGCAGGAGCCCTGAGTGCTCACAGCCGCCTCTGACGCATTG	840
	I L V E T *	241
841	ACACGTGAGCACTGGCTCCCACGGAGGGTGCGCCTGCCGCCAGCCCAGCCTTGCTGC	900
9.01	CCTGTCTGCTGATTCTGAGAAATCCCAGAACAGCCCATTACCAGTGGGGCTGCAGCCCTA	960
961	GGCCCGTCCCACTCACCTCCCCCTGTGGAGCGCCAGGCAGAGGCTGTTCTGGAAGGCTT	
1021		1020
	CTTGTCTTCTGACGTCCCCACAGCCCTGGGCCCCTCGTGTCTCTTTGTGTCCCCCACTGT	1020 1080
1081	CTTGTCTTCTGACGTCCCCACAGCCCTGGGCCCCTCGTGTCTCTTTGTGTCCCCCACTGT AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTTA	
		1080
1141	$\tt AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTTA$	1080 1140
1141 1201	$A GAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTTA\\ CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT\\$	1080 1140 1200
1141 1201 1261	$AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTTA\\ CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT\\ TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA\\$	1080 1140 1200 1260
1141 1201 1261 1321	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTTA CAATTCAGTTTACATGTTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTTTTCA	1080 1140 1200 1260 1320
1141 1201 1261 1321 1381	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTTA CAATTCAGTTTACATGTTTTTGGGCAGTATTTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAAATAAGGGTTTTTTTTTT	1080 1140 1200 1260 1320 1380
1141 1201 1261 1321 1381 1441	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTTGTTTTTT	1080 1140 1200 1260 1320 1380 1440
1141 1201 1261 1321 1381 1441 1501	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTTGTTTTTT	1080 1140 1200 1260 1320 1380 1440 1500
1141 1201 1261 1321 1381 1441 1501 1561 1621	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTTGTTTTTT	1080 1140 1200 1260 1320 1380 1440 1500
1141 1201 1261 1321 1381 1441 1501 1561 1621	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTTGTTTTTT	1080 1140 1200 1260 1320 1380 1440 1500 1560
1141 1201 1261 1321 1381 1441 1501 1561 1621 1681	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTTGTTTTTT	1080 1140 1200 1260 1320 1380 1440 1500 1660 1680 1740 1800
1141 1201 1261 1321 1381 1441 1501 1561 1621 1681 1741	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTTGTTTTTT	1080 1140 1200 1260 1320 1380 1440 1500 1560 1620 1680 1740
1141 1201 1261 1321 1381 1441 1501 1561 1621 1681 1741 1801	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTG	1080 1140 1200 1260 1320 1380 1440 1500 1660 1680 1740 1800
1141 1201 1261 1321 1381 1441 1501 1561 1621 1681 1741 1801 1861	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTCTATAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTG	1080 1140 1200 1260 1320 1380 1440 1500 1620 1680 1740 1800 1860
1141 1201 1261 1321 1381 1441 1501 1561 1621 1681 1741 1801 1861	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTTCAGCTATTTTCTTAAAAGTATATTTTTTTAAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTG	1080 1140 1200 1260 1320 1380 1440 1500 1660 1680 1740 1800 1860 1920
1141 1201 1261 1321 1381 1441 1501 1561 1621 1681 1741 1801 1861 1921	AGAGGACGGTGAGCCGCAGCTGCATCAACCTCCTTTTACCTTTAGATAGGTGAATTTTA CAATTCAGTTTTACATGTTTTGGGCAGTATTTTGTCTTAAGATATATTTTTTAAACTTTT TATACCTTATCTCTTTAGATTTTTCAGCTATTTTCTTAAAAGTATATTTTTTTAAAA CATCCTTTGCTGCTACATTAGAACTTTTATAGCCTAAACAATTGCAGTTGGTGTGTTCA TTTTTTTAAGGTTTAAATAAGGGTTTTTTGTTTTG	1080 1140 1200 1260 1320 1380 1440 1500 1660 1680 1740 1860 1920 1980

New U.S. Patent Application Inventors: R. JURECIC et al.

Title: HEPP, A Novel Gene with a Role in Hematopoietic and Neural Development" Attorney Docket No. 39532.176599 Sheet 3 of 14

## FIGURE 2

Mouse Human	 1	mfarglkrkygdoeegyegfgtvpsysloroslldmslvklolchmlvepnlcrsv mfarglkrkgv <mark>gheedvegala</mark> glk <mark>tvssysloroslldmslvklolchmlvepnlcrsv</mark>
Mouse	 57	LIANTVRQIQEEMSQDGVWHGMAPQNVDRAPVERLVSTEILCRTVRGAEEBHPAPELEDA
Human	61	LIANTVRQIQEEMTQDGTWRTVAPQAAERAPLDRLVSTEILCRAAWGQEGAHPAPGLGDG
Mouse	 117	PLONSVSELPIVGSAPGORNPOSSLWEMDSPOENRGSFOKSLDQIFETLENKNSSSVEEL
Human	121	HTOGPVSDLCPVTSAOAPRHLOSSAWEMDGPRENRGSFHKSLDOIFETLETKNPSCMEEL
Mouse	 177	fsdvds <mark>syydldtvltgmm</mark> sgtkssl <mark>cnglegfaaatpppsskcksdlaeldhvveilve</mark>
Human	181	fsdvds <mark>pyydldtvltgmm</mark> gg <mark>arpgp</mark> cegleglapatpgpssscksdlgeldhvveilve
Mouse Human	 237 241	

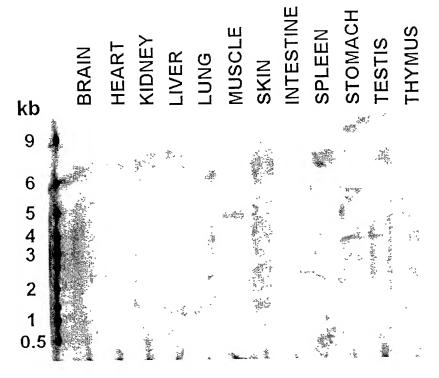
## FIGURE 3

Zebrafish Hepp Mouse Hepp Human HEPP	1 1	mfskg <mark>e</mark> krkfadggeeisddglvaarvassysloroslldmsleklolchmlvepnlcrs mfarglkrkyg <mark>doeegve</mark> gfgtv <mark>psysloroslldmslvklolchmlvepnlcrs</mark> mfarglkrk <mark>cvgh-eedvegal</mark> aglktvssysloroslldmslvklolchmlvepnlcrs
Zebrafish Hepp	61	VLIANTVRQIQEEMTHOGSWHMVTEAFCGASQSPSERLVATEVLCR
Mouse Hepp	56	VLIANTVRQIQEEMSQDGVWHGMAPQNVDRAPVERLVSTEILCRTVRGAEEEHPAPEL
Human HEPP	60	VLIANTVRQIQEEMTQDGTWRTVAPQAAERAPHORLVSTEILCRAAWGQEGAHPAPGL

FIGURE 4B

FIGURE 4A

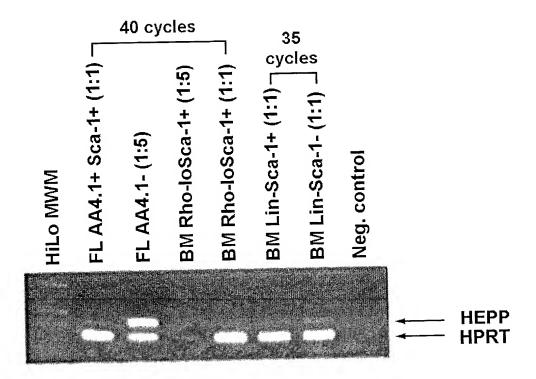
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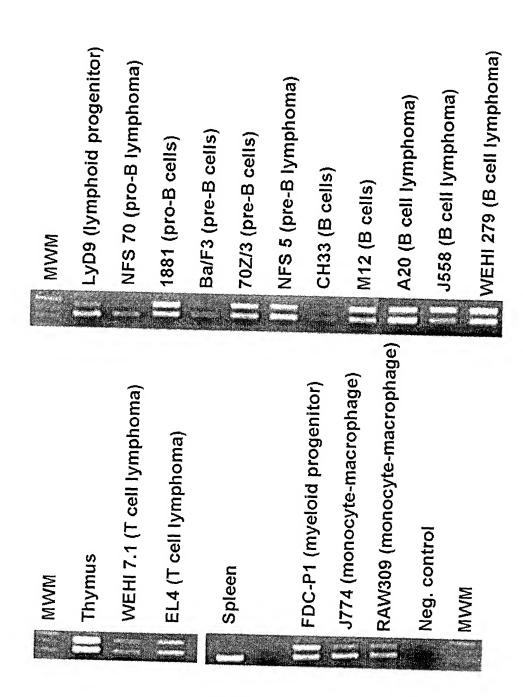
BRAIN
HEART
KIDNEY
LIVER
LUNG
MUSCLE
SKIN
INTESTINE
SPLEEN
STOMACH
TESTIS
THYMUS

FIGURE 5

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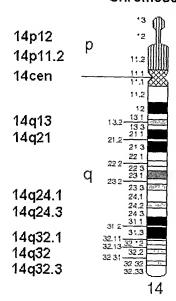
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# FIGURE 7

# Chromosome 14



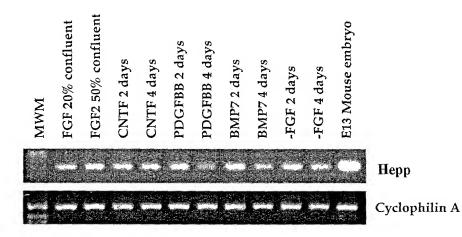
translocation breakpoints

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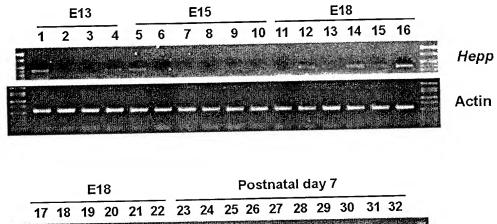


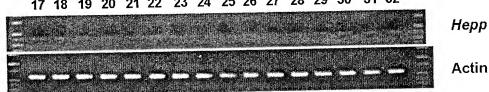
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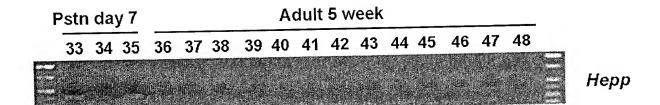
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### FIGURE 9







### Embryo day 13 1. Telenczphalon/Diencephalon

- Mesencephakon (Midbrzin)
- 3. Rhombeacepholon (Hindbrain)
- 4. Spinal coed

## Embryo day 15

- 5. Telencephalon
- 6. Dienoephalou
- 7. Midbrain
- 8. Pons
- 9. Modulia
- 10. Spinzi cord

#### Embryo day 18

- 11. Frontal cortex.
- 12. Postcrior cortex
- 13. Entochinal correx
- 14. Offsctory balb
- 15, Hippocampus
- 16. Stringum
- 17. Thalamus
- 18. Hypothalamus
- 19. Midbrain
- 20 Pocs
- 21. Medulla
- 22. Spinal cord

#### Postnatal day ?

- 23. Frontal cortex
- 24. Posterior cortex
- 25. Entochimal corkx
- 26. Offactory bulb
- 27. Нірроскороз
- 28. Stringum
- 29. Thalames
- 30. Hypothalamus
- 31. Cerebellum.
- 32. Midletin
- 33. Poes
- 34. Medulla
- 35. Spinal cord

### Adult 5 week

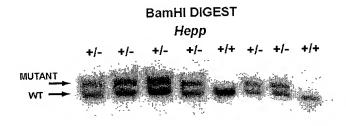
- 36. Fruital distex
- 37. Posterior cortex
- 38. Entochinal cortes
- 39 Officiary bulb
- 40. Hopocampus
- 41. Strianen
- 42. Thalancus
- 43. Hypothalamus
- 44, Cerebellum
- 45. Madbrain
- 46. Pres
- 47. Medulia
- 48. Spinal cord

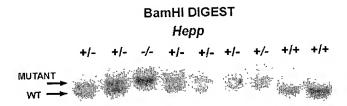
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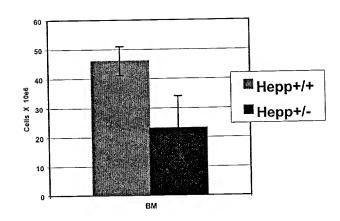
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# FIGURE 10





# FIGURE 11



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Hematopoietic and Neural Development" Attorney Docket No. 39532.176599

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FIGURE 12

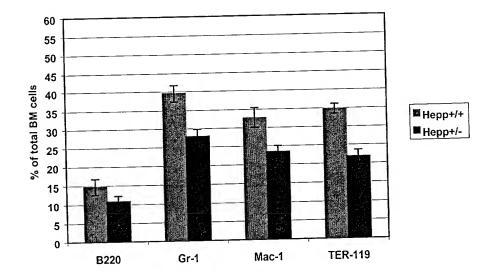
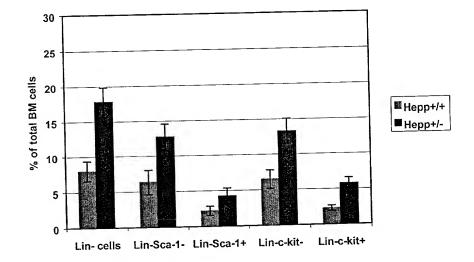


FIGURE 13



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FIGURE 14

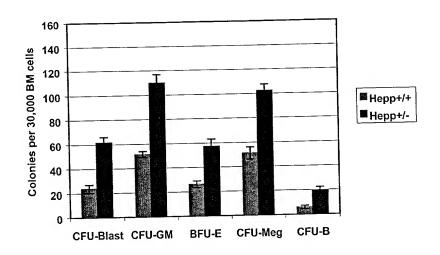
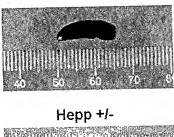
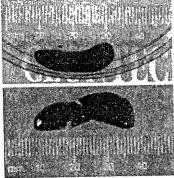


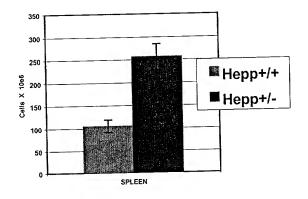
FIGURE 15A-B

FIGURE 15C

Hepp +/+





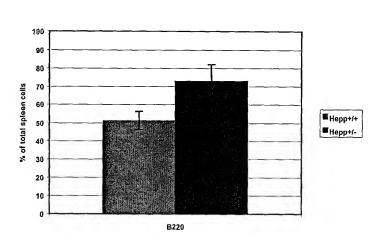


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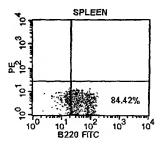
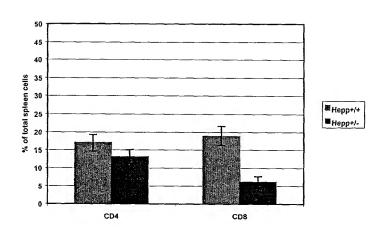
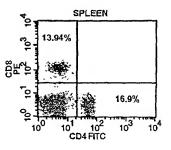
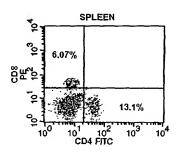


FIGURE 17







New U.S. Patent Application Inventors: R. JURECIC et al. Title: HEPP, A Novel Gene with a Role in Hematopoietic and Neural Development" Attorney Docket No. 39532.176599 Sheet 14 of 14

# FIGURE 18A



# FIGURE 18B



# FIGURE 18C

